



**POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST**  
**(REVOCATION OF PRIOR POWERS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Hitachi, Ltd., as assignee of record of the entire interest of the applications identified in the attached Appendix A and as per the Assignments corresponding to said applications, the recordation date and locations of said Assignments being indicated in the attached Appendix A, hereby revoke all powers of attorneys previously given and hereby appoint the following attorneys to prosecute and transact all business in the Patent and Trademark Office connected therewith:

John R. Mattingly, Reg. No. 30,293; Daniel J. Stanger, Reg. No. 32,846; Shrinath Malur, Reg. No. 34,663; Carl I. Brundidge, Reg. No. 29,621; and the attorneys/agents associated with Customer No. 24956.

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The undersigned submits that the undersigned has power to act on behalf of the assignee, the evidentiary documents have been reviewed and certifies that, to the best of assignee's knowledge and belief, title is in the assignee seeking to take the action.

Executed this 28 day of April, 2005.

HITACHI, LTD.

  
Yasuo SAKUTA, Patent Attorney  
Executive Officer  
Intellectual Property Group  
(Authorized Signing Officer)

## APPENDIX A

ATTY. DKT. NO.	INVENTOR	SERIAL NO.	FILING DATE	RECORDATION DATE	REEL/FRAME
500.31108CC6	A. TANAKA	10/610,759	2-Jul-03	24-Mar-93	6075/602
500.31108X00	A. TANAKA	07/859,850	30-Mar-92	24-Mar-93	6075/602
500.31108CC2	A. TANAKA	08/895,886	17-Jul-97	24-Mar-93	6075/602
500.31108CC3	A. TANAKA	08/895,986	17-Jul-97	24-Mar-93	6075/602
500.31108CC4	A. TANAKA	09/162,444	29-Sep-98	24-Mar-93	6075/602
500.31108CC5	A. TANAKA	09/712,171	15-Nov-00	24-Mar-93	6075/602
500.31108CX1	A. TANAKA	08/534,841	27-Sep-95	24-Mar-93	6075/602
500.28503CC5	H. MANO	09/625,542	25-Jul-00	6-Feb-90	5229/108
500.28503CC6	H. MANO	11/087,498	24-Mar-05	6-Feb-90	5229/108
500.28503CC4	H. MANO	09/188,901	10-Nov-98	6-Feb-90	5229/108
500.28503CX3	H. MANO	08/466,188	6-Jun-95	6-Feb-90	5229/108
500.28503CX1	H. MANO	07/844,965	28-Feb-92	6-Feb-90	5229/108
500.37074CX2	A. KANO	10/843,482	12-May-04	7-Apr-99	9924/0489
500.37074X00	A. KANO	09/287,376	7-Apr-99	7-Apr-99	9924/0489
500.37074CX1	A. KANO	10/096,455	13-Mar-02	7-Apr-99	9924/0489
500.32392X00	T. NISHIYAMA	08/117,326	7-Sep-93	7-Sep-93	6730/504
500.32392CX1	T. NISHIYAMA	08/375,409	18-Jan-95	7-Sep-93	6730/504
500.32392CC2	T. NISHIYAMA	08/956,787	23-Oct-97	7-Sep-93	6730/504
500.32392CC3	T. NISHIYAMA	09/285,050	2-Apr-99	7-Sep-93	6730/504
500.32392CC4	T. NISHIYAMA	09/579,473	26-May-00	7-Sep-93	6730/504
500.32392CC5	T. NISHIYAMA	09/984,610	30-Oct-01	7-Sep-93	6730/504
500.32392CC6	T. NISHIYAMA	10/441,064	5/20/2003	7-Sep-93	6730/504
500.31164X00	S. KOIZUMI	07/872,773	23-Apr-92	23-Apr-92	6103/0237
500.31164VX1	S. KOIZUMI	08/487,899	7-Jun-95	23-Apr-92	6103/0237
500.31164CV2	S. KOIZUMI	08/831,180	2-Apr-97	23-Apr-92	6103/0237
500.31164VV3	S. KOIZUMI	09/080,241	18-May-98	23-Apr-92	6103/0237
500.31164CC5	S. KOIZUMI	09/222,954	30-Dec-98	23-Apr-92	6103/0237
500.31164CV6	S. KOIZUMI	10/762,373	23-Jan-04	23-Apr-92	6103/0237
500.31833X00	H. ITOH	08/001,248	6-Jan-93	6-Jan-93	6405/641
500.31833CX1	H. ITOH	08/667,583	24-Jun-96	6-Jan-93	6405/641
500.31833CC2	H. ITOH	08/975,054	20-Nov-97	6-Jan-93	6405/641
500.31833CC3	H. ITOH	09/407,840	29-Sep-99	6-Jan-93	6405/641
500.31833CC4	H. ITOH	10/285,447	1-Nov-02	6-Jan-93	6405/641
500.31833CC5	H. ITOH	10/659,292	11-Sep-03	6-Jan-93	6405/641
500.33470X00	T. YAMAGUCHI	08/371,376	11-Jan-95	11-Jan-95	7315/0126
500.33470CC2	T. YAMAGUCHI	08/948,071	9-Oct-97	11-Jan-95	7315/0126
500.33470CC3	T. YAMAGUCHI	09/638,027	15-Aug-00	11-Jan-95	7315/0126
500.33470CC4	T. YAMAGUCHI	09/963,473	27-Sep-01	11-Jan-95	7315/0126
500.33470CC5	T. YAMAGUCHI	10/337,321	7-Jan-03	11-Jan-95	7315/0126
500.33470CC6	T. YAMAGUCHI	10/963,508	14-Oct-04	11-Jan-95	7315/0126
500.33718CX4	R. Hattori	10/336,796	6-Jan-03	3-May-98	7475/778
500.33718X00	R. Hattori	08/434,291	3-May-95	3-May-98	7475/778
500.33718VX1	R. Hattori	09/106,291	29-Jun-98	3-May-98	7475/778
500.33718VX2	R. Hattori	09/518,147	3-Mar-00	3-May-98	7475/778
500.33718VX3	R. Hattori	10/082,185	26-Feb-02	3-May-98	7475/778
500.37943X00	Y. NAKANO	09/452,172	1-Dec-99	1-Dec-99	010432/0607
500.37943CX1	Y. NAKANO	10/242,441	13-Sep-02	1-Dec-99	010432/0607
500.37943CX2	Y. NAKANO	10/725,454	3-Dec-03	1-Dec-99	010432/0607
500.33152X00	O. NISHII	08/301,887	7-Sep-94	7-Sep-94	7141/0420

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500.33152CX1	O. NISHII	08/815,600	12-Mar-97	7-Sep-94	7141/0420
500.33152CX2	O. NISHII	09/188,902	10-Nov-98	7-Sep-94	7141/0420
500.33152CX3	O. NISHII	09/641,913	21-Aug-00	7-Sep-94	7141/0420
500.33152R00	O. NISHII	10/290,367	8-Nov-02	7-Sep-94	7141/0420
500.33218X00	Y. TONOMURA	08/314,373	28-Sep-94	28-Sep-94	7315/004
500.33218CX1	Y. TONOMURA	08/670,774	20-Jun-96	28-Sep-94	7315/004
500.33218CR2	Y. TONOMURA	09/625,508	25-Jul-00	28-Sep-94	7315/004
500.38010X00	T. TAKAHASHI	09/461,192	15-Dec-99	15-Dec-99	010465/0117
500.38010CX1	T. TAKAHASHI	10/834,044	29-Apr-04	15-Dec-99	010465/0117
500.36680X00	T. HIRATA	09/179,091	27-Oct-98	27-Oct-98	9551/0444
500.36680CX1	T. HIRATA	09/793,970	28-Feb-01	27-Oct-98	9551/0444
500.36680CX2	T. HIRATA	10/893,990	20-Jul-04	27-Oct-98	9551/0444
500.31715X00	K. KITAMURA	07/977,249	16-Nov-92	10-Oct-95	7699/937
500.31715PX1	K. KITAMURA	08/483,885	7-Jun-95	10-Oct-95	7699/937
500.33678X00	M. SAITO	08/421,249	13-Apr-95	9-Jun-95	7507/141
500.33678VX1	M. SAITO	09/167,498	7-Oct-98	9-Jun-95	7507/141
500.33678VC2	M. SAITO	10/342,272	15-Jan-03	9-Jun-95	7507/141
500.33678CV3	M. SAITO	10/965,847	18-Oct-04	9-Jun-95	7507/141
500.36365X00	T. SEKIGUCHI	09/107,388	30-Jun-98	30-Jun-98	9303/0621
500.36365CX1	T. SEKIGUCHI	09/858,492	17-May-01	30-Jun-98	9303/0621
500.36365CC2	T. SEKIGUCHI	10/861,482	7-Jun-04	30-Jun-98	9303/0621
500.35522X00	S. HAMAMOTO	08/887,123	2-Jul-97	8-Jul-97	8685/0560
500.35522CX1	S. HAMAMOTO	09/472,838	28-Dec-99	8-Jul-97	8685/0560
500.35522CX2	S. HAMAMOTO	10/175,496	20-Jun-02	8-Jul-97	8685/0560
500.35522CX3	S. HAMAMOTO	10/175,494	20-Jun-02	8-Jul-97	8685/0560
500.35522CX4	S. HAMAMOTO	10/175,361	20-Jun-02	8-Jul-97	8685/0560
500.40511X00	C. OKAMOTO	09/931,251	17-Aug-01	9-Oct-01	012248/0372
500.42702X00	R. KANAZAWA	10/417,195	17-Apr-03	25-Jun-03	014213/0298
500.37036X00	T. KOMACHIYA	09/254,956	22-Mar-99	22-Mar-99	010442/0368
500.37036CX1	T. KOMACHIYA	10/123,404	17-Apr-02	22-Mar-99	010442/0368
500.36167X00	T. NAOKI	09/050,064	30-Mar-98	30-Mar-98	9078/0669
500.36167CX1	T. NAOKI	09/496,465	2-Feb-00	30-Mar-98	9078/0669
500.36167CX4	T. NAOKI	10/915,566	11-Aug-04	30-Mar-98	9078/0669
500.36167CX2	T. NAOKI	09/662,161	14-Sep-00	30-Mar-98	9078/0669
500.36167CX3	T. NAOKI	10/095,058	12-Mar-02	30-Mar-98	9078/0669
500.35819X00	K. SAKAMOTO	08/970,159	13-Nov-97	13-Nov-97	8912/0350
500.35819CX1	K. SAKAMOTO	09/411,655	4-Oct-99	13-Nov-97	8912/0350
500.35819CX2	K. SAKAMOTO	09/638,028	15-Aug-00	13-Nov-97	8912/0350
500.35819CX3	K. SAKAMOTO	09/906,677	18-Jul-01	13-Nov-97	8912/0350
500.35819CX4	K. SAKAMOTO	10/894,060	20-Jul-04	13-Nov-97	8912/0350
500.43813X00	T. KUSAMA	10/834,839	30-Apr-04	21-Jul-04	015589/0904
500.43809X00	T. NAKAMURA	10/834,837	30-Apr-04	21-Jul-04	015589/0938
500.40609X00	H. ITO	09/942,873	31-Aug-01	3-Dec-01	012342/0874
500.40609CX1	H. ITO	10/317,113	12-Dec-02	3-Dec-01	012342/0874
500.40609CX2	H. ITO	10/725,455	3-Dec-03	3-Dec-01	012342/0874
500.43259X00	T. MAEDA	10/699,735	4-Nov-03	12-Feb-04	014976/0898
500.42884X00	T. ENDO	10/608,209	30-Jun-03	30-Jun-03	014247/0030
500.42881X00	J. YOSHIDA	10/608,208	30-Jun-03	30-Sep-03	014540/0899
500.38297X00	S. KOBAYASHI	09/518,214	3-Mar-00	25-May-00	010811/0190
500.37485X00	H. KAZUO	09/383,370	26-Aug-99	26-Aug-99	010210/0606
500.37485CX1	H. KAZUO	10/412,388	14-Apr-03	26-Aug-99	010210/0606
500.37485CX2	H. KAZUO	10/412,232	14-Apr-03	26-Aug-99	010210/0606

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500.42662X00	T. YOSHIMOTO	10/405,616	3-Apr-03	3-Apr-03	013941/0046
500.38485X00	H. MOTOAKI	09/553,762	21-Apr-00	12-Jul-00	010917/0296
500.38485CX1	H. MOTOAKI	09/812,781	15-Mar-01	12-Jul-00	010917/0296
500.38485CC2	H. MOTOAKI	10/395,249	25-Mar-03	12-Jul-00	010917/0296
500.42278X00	H. MURAMATSU	10/304,077	26-Nov-02	12-Sep-03	014487/0486
500.42379X00	T. SHINODA	10/339,314	10-Jan-03	6-Mar-03	013825/0584
500.42212X00	T. YANO	10/287,676	5-Nov-02	8-Jan-03	013646/0948
500.42042X00	K. SATOSHI	10/233,572	4-Sep-02	12-Nov-02	013490/0887
500.42047X00	K. ICHIKAWA	10/233,573	4-Sep-02	3-Mar-03	013807/0178
500.35873X00	S. TAKASHIMIZU	08/986,074	5-Dec-97	5-Dec-97	8912/0959
500.35873CX1	S. TAKASHIMIZU	10/470,635	23-Jan-01	5-Dec-97	8912/0959
500.35873CX2	S. TAKASHIMIZU	09/851,196	9-May-01	5-Dec-97	8912/0959
500.35873CX3	S. TAKASHIMIZU	10/164,614	10-Jun-02	5-Dec-97	8912/0959
500.35873CX4	S. TAKASHIMIZU	10/435,248	12-May-03	5-Dec-97	8912/0959
500.42704X00	I. YAGISAWA	10/419,096	21-Apr-03	4-Aug-03	014350/497
500.42704CX1	I. YAGISAWA	10/962,623	13-Oct-04	4-Aug-03	014350/497
500.42704CX2	I. YAGISAWA	10/962,599	13-Oct-04	4-Aug-03	014350/497
500.42704CX3	I. YAGISAWA	10/988,495	16-Nov-04	4-Aug-03	014350/497
500.42704CX4	I. YAGISAWA	10/988,496	16-Nov-04	4-Aug-03	014350/497
500.42704CX5	I. YAGISAWA	10/988,704	16-Nov-04	4-Aug-03	014350/497
500.42704CX6	I. YAGISAWA	10/988,564	16-Nov-04	4-Aug-03	014350/497
500.35527X00	T. SHIBA	08/875,182	21-Jul-97	21-Jul-97	008712/0963
500.35527CX1	T. SHIBA	09/558,373	26-Apr-00	21-Jul-97	008712/0963
500.35527CX2	T. SHIBA	10/730,003	9-Dec-03	21-Jul-97	008712/0963
500.41928X00	T. SAITO	10/206,935	30-Jul-02	30-Jul-02	013154/0582
500.41163X00	N. TAKAOKA	10/066,676	6-Feb-02	6-Feb-02	012560/0771
500.36700X00	E. MATSUMURA	09/188,245	9-Nov-98	9-Nov-98	9590/0198
500.36700CX2	E. MATSUMURA	10/417,267	17-Apr-03	9-Nov-98	9590/0198
500.42045X00	H. SOMEYA	10/233,513	4-Sep-02	19-Nov-02	013507/0374
500.42000X00	M. HIRABAYASHI	10/230,277	29-Aug-02	7-Nov-02	013470/0839
500.36144X00	D. MORI	09/046,704	24-Mar-98	24-Mar-98	9057/0019
500.36144CX1	D. MORI	09/519,746	6-Mar-00	24-Mar-98	9057/0019
500.36144CX2	D. MORI	10/152,835	23-May-02	24-Mar-98	9057/0019
500.41713X00	M. HARA	10/147,888	20-May-02	20-May-02	012921/0626
500.41715X00	K. IWADE	10/147,879	20-May-02	20-May-02	012921/0644
500.41657X00	T. KUSAMA	10/140,981	9-May-02	17-Jul-02	013104/0240
500.41684X00	M. HIRAYAMA	10/137,448	3-May-02	29-Jul-02	013135/0095
500.41659X00	H. YUI	10/128,284	24-Apr-02	17-Jun-02	013009/0102
500.41083X00	D. WATANABE	10/046,167	16-Jan-02	2-Dec-98	9650/0845
500.41083CX1	D. WATANABE	10/124,577	18-Apr-02	2-Dec-98	9650/0845
500.41758X00	M. SAKATSUME	10/160,087	4-Jun-02	29-Aug-02	013246/0258
500.41411X00	T. TANAKA	10/096,861	14-Mar-02	14-Mar-02	012704/0060
500.41164X00	S. SEKIGUCHI	10/066,660	6-Feb-02	17-Jun-02	013001/0765
500.25179X00	Y. SAKURAI	07/096,011	14-Sep-87	14-Sep-87	004777/0869
500.25179PX1	S. TANABE	07/645,491	24-Jan-91	24-Jan-91	5592/019
500.25179CP1	S. TANABE	08/438,959	11-May-95	24-Jan-91	5592/019
500.25179CP2	S. TANABE	08/838,950	23-Apr-97	24-Jan-91	5592/019
500.25179CX1	Y. SAKURAI	07/654,590	13-Feb-91	14-Sep-87	004777/0869
500.25179CX3	Y. SAKURAI	08/435,960	5-May-95	14-Sep-87	004777/0869
500.25179CX2	Y. SAKURAI	08/435,961	5-May-95	14-Sep-87	004777/0869
500.25179CX4	Y. SAKURAI	08/903,176	30-Jul-97	14-Sep-87	004777/0869
500.25179CX5	Y. SAKURAI	09/373,596	13-Aug-99	14-Sep-87	004777/0869

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500.25179CX6	Y. SAKURAI	09/373,599	13-Aug-99	14-Sep-87	004777/0869
500.25179CX7	Y. SAKURAI	09/873,280	5-Jun-01	14-Sep-87	004777/0869
500.25179CX8	Y. SAKURAI	10/102,912	22-Mar-02	14-Sep-87	004777/0869
500.25179CP3	S. TANABE	09/340,139	28-Jun-99	24-Jan-91	5592/019
500.25179CP4	S. TANABE	09/467,213	20-Dec-99	24-Jan-91	5592/019
500.25179CP5	S. TANABE	10/040,466	9-Jan-02	24-Jan-91	5592/019